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STATE OF COLORADO



1954

ANNUAL REPORT



COAL MINE INSPECTION DEPARTMENT

STATE OF COLORADO



1954



ANNUAL REPORT

COAL MINE INSPECTION DEPARTMENT

PERSONNEL OF DEPARTMENT

CHIEF INSPECTOR - THOMAS ALLEN Tel. -K_Eystone 4-8054
1221 Washington Street, Denver 3

DEPUTY INSPECTORS - Counties within each district

- Dist. #1 - Finlay McCallum, 4635 Eliot Street, Denver 11
Boulder, El Paso, Jackson, Jefferson, Moffat,
Rio Blanco, Routt and Weld

Dist. #2 - George H. Smith, 1110 Macon Street, Canon City
Fremont, Gunnison (Crested Butte area), Huerfano and
Las Animas

Dist. #3 - John J. Roddy, 1404 White Avenue, Grand Junction
Archuleta, Delta, Garfield, Gunnison (Somerset area),
La Plata, Mesa, Montezuma, Montrose, Pitkin and
San Miguel

GENERAL OFFICE

- Administrative Assistant, Veda Burford, 1610 Magnolia, Denver 20
Account Clerk, Evelyn Miller, 3915 Xavier Street, Denver 12
Clerk-Stenographer, Rose Maxine Canaday, Erie

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

- Fred W. Whiteside, EM, 356 Lafayette Street, Denver
Henry A. Coll, Glenwood Springs
Tony Guadagnoli, 19 East 2nd Street, Colorado Springs
Otto Serroni, 633 - 3rd Avenue, Durango

OFFICE ADDRESS AND TELEPHONE:

Argonaut Hotel, Denver 2
KEystone 4-6485

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LETTER OF TRANSMITTAL

April 1, 1955

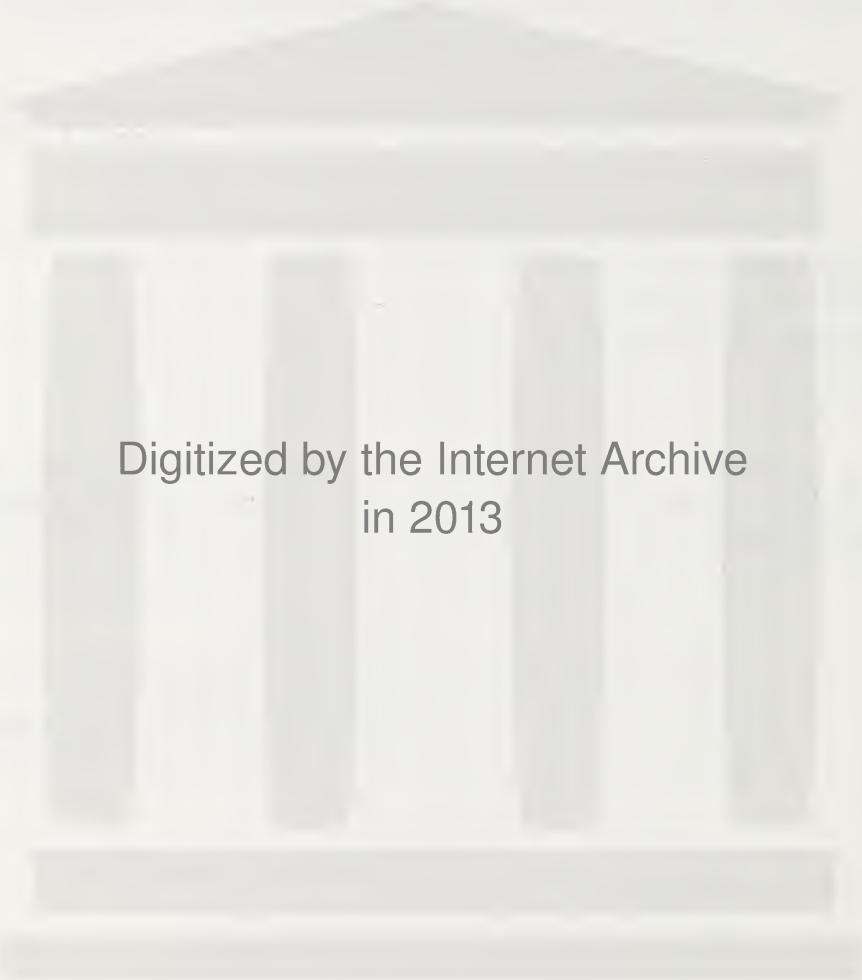
To His Excellency
EDWIN C. JOHNSON
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Department of Colorado, for the year ending December 31, 1954.

Respectfully,

THOMAS ALLEN
Chief Inspector of Coal Mines



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INTRODUCTORY REMARKS BY CHIEF INSPECTOR

Colorado produced less coal in 1954 than in any year since 1889 as shown in the 81-year chart within this publication. The decrease over 1953 is comparable to the general decrease in other coal producing states, but regardless of replacements of coal, it is feasible to anticipate a marked increase within the next few years by the development of new industrial plants dependent on coal.

Numerous reports have been prepared during the past year on requested information in various coal fields in Colorado with the hope that it may assist in the location of plant sites within our state. As there is no State Department of Geology or Technical Research, it has required much preparation which will be retained within the permanent files of this department.

In 1954, the 158 coal mines in Colorado employed 2,878 men an average of 154.8 days per mine, with a daily production of 6.6 tons per miner. The year closed with a total of 3 fatal accidents and 86 non-fatal injuries, showing an improvement in the safety record of all coal mines in the state. The fatality rate per million man-hours worked was 0.84 in Colorado coal mines during 1954; the rate of all coal mines in the nation was 1.01 for the same period. On a production basis, Colorado - 1.02 million tons of coal per fatality compared to 0.94 for all coal mines in the United States.

Of the production of 2,922,365 tons of coal, about 59% was mechanically mined and loaded and 8% electrically undercut but hand-loaded onto mechanical devices. There are 50 mines in which no machinery is used, most of which are small operations.

Coal in this state is mined under an outstanding variance in geological formation, working level to vertical seams ranging from two to sixty feet in thickness. About 25% of the operating mines are classified as gaseous.

Mine Fires: Reoccurrences at three mines, the New Castle and Sunlight in Garfield County which resulted in sealing the affected areas, and the old Streeter in Moffat County which was immediately re-sealed. The Hi-Way Mine in Boulder County was abandoned and permanently sealed due to a tipple fire which completely destroyed the hoisting shaft.

Gas Inflow: Oliver #2 Mine in Gunnison County, permanently sealed in October due to an excessive inflow of gas released by a heavy bump which endangered further operation. All equipment was recovered under the supervision of this department.

Ignition of explosive gas at the I. H. I. Mine #3 in Garfield County in April partially burned two men when a gas feeder was tapped while they were drilling boreholes with an electric drill.

The State Historical Department has completed microfilms of the annual reports of this department from 1882 through 1953, which will be permanently filed in the State Archives. The History Books showing the complete available record of each mine known to operate in Colorado will be filmed within the coming year. The valuable records will be preserved in fireproof files.

During 1954 the U. S. Bureau of Mines trained 1,607 persons in First Aid, 15 in Mine Rescue and 54 supervisors in Accident Prevention. There are 10 active chapters of the Holmes Association: The Allen, Frederick and Morley mines in Las Animas County; the Harris, Hayden Valley, Keystone, Oak Hills and Osage Strip Chapters in Routt County; the Hi-Coal Chapter in Moffat County; and the Frank Yandall Chapter at Glenwood Springs.

Special attention is called to the safety record of the Boulder Valley #3 and Baum mines, now connected as one mine, which operated through the year year with no lost-time accidents; and to the Red Wing, the Osage and Edna Strip mines, all of which appear on the Honor Roll.

HONOR ROLL FOR 1954
50,000 or more man-hours per injury.

Name of Mine	Company	County	Non-Fatals	Fatals	Man Hours Per Injury
Frederick	C F & I Corp.	Las A.	0	5	146,968
B. Val. #3/Baum	Boulder Valley	Weld	0	0	105,399
Morley	C F & I Corp.	Las A.	1	4	99,656
Allen	C F & I Corp.	Las A.	0	6	79,318

40,000 to 50,000 man-hours per injury.

Red Wing	Colowyo Coal	Moffat	0	0	49,418
Osage Strip	Osage Coal	Routt	0	0	48,163
Edna Strip	Edna Coal	Routt	0	0	42,514

The field force of three inspectors, in addition to checking mines for compliance with recommendations made, the investigation of special conditions, mine fires and other recovery work, completed the year with the required number of inspections at operating mines.

SUMMARY OF FIELD WORK

Number of inspections	638
Investigations of fatal accidents	5
Coroner's inquests attended	3
Complaints investigated	18
Prosecutions	2
Mines closed for violations	15
Safety meetings attended	31
First Aid and Educational classes attended	19
Examinations for Shot Firers	58

FINANCIAL STATEMENT FOR THE CALENDAR YEAR

RECEIPTS

Balance on hand January 1, 1954	\$ 4,105.27
Coal Tax & License Fees	\$ 27,446.82
Sale of car and equipment	759.25
Coal Mining Law Books sold	30.50
Appropriation from General Fund	15,000.00
Total	\$ 43,236.57
	43,236.57
	\$47,341.84

EXPENDITURES

Salaries - Field & Office	\$ 33,508.63
Travel - Hotels, Meals, Gas, etc.	5,541.60
Rent - Field & Office	2,926.50
Telephone, Telegraph, Postage	1,326.98
Office Supplies and Equipment	497.56
Insurance on Cars and Surety Bonds	203.03
Cleaning and Equipment Repairs	110.89
Printing and Multigraphing	70.05
Misc. Investigation, Haulage	19.50
Total	\$ 44,204.74
	44,204.74
Balance on hand January 1, 1955	\$ 3,137.10

We fully appreciate the cooperation of the various State and Federal departments, the coal mine operators and officials, and the United Mine Workers of America; and the able assistance of the Attorney General in matters of litigation or opinions rendered.

THOMAS ALLEN, Chief Coal Mine Inspector

GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1954

MINES REPORTING PRODUCTION		Underground - 150	Strip Pits - 8	158 2,922,365
PRODUCTION IN SHORT TONS		SIZES		
GRADES		Mine Run	Pea	
Anthracite	434	351, 168		87, 032
Bituminous	2,294, 926	254, 962	Slack	1, 8558, 296
Sub-Bituminous	638, 840	128, 768	Miscellaneous	68, 643
	Egg	173, 496		

TONNAGE BY MINING METHODS

MINED - Electric undercutting machines
Solid pick

LOADED - Mechanically, using no or very little hand labor
Hand-loaded onto mechanical loaders

Hand-loaded into pit cars

CUT AND LOADED BY CONTINUOUS MINING MACHINES

STRIPPED - OPEN PITS

SHIPMENT AND DISPOSAL

Shipped by rail 2,012, 416 Shipped out of the state
Shipped by truck 867, 525 Locally or power & heat at mines

MEN EMPLOYED (Average number) Underground-2, 248. 7 Surface-530. 1 Strips - 99. 2

DAILY PRODUCTION PER MINER

DAYS WORKED (Average number per mine) 154. 8

UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT - See Pages 28, 29
MINING MACHINERY - Electric: Undercutting 330 Shearing 3
Combination 11 Drills 335

Compressed air: Drills 81 Mainline conveyors 23
MECHANICAL LOADERS - Shakers 186 Chain conveyors 36
Mobile 44 Portable conveyors 11

CONTINUOUS MINING MACHINES - Undercutting & loading 5

HAULAGE MACHINERY - Locomotives: Electric trolley - 114
 Hoists: Electric 118
 Shuttle cars: 61

LAMPS: Flame safety - 554

Electric cap - 4,770

STRIP MACHINERY & EQUIPMENT

Bulldozers	10	Drag lines	2	Power shovels	4
Carryalls	3	Drills	6	Scarifiers	4
Caterpillers	3	Jack hammers	9	Tractors	6
Compressors	4	Loaders	2	Trucks	18

EXPLOSIVES(Pounds)	Permissible	Dynamite	Cardox	Airdox
Underground mines	495,597	4,050	29 mines	1 mine
Strip mines	10,600	198,555		
-	506,197	202,605	608,725	

1,317,527

SURFACE & MISCELLANEOUS

Hoists: Gas	28	Steam	7	Electric	76	111
Tipples: Gravity	66	Mechanical	83		149	
Ventilation fans: Exhaust	88	Force	36		124	
Coal washing plants	7	Steam plants	25	Box car loaders	58	
Pumps: Electric	248	Compressed air	20	Bath houses & showers	549	
Air compressors: Underground	24	Surface	19	Rock dusting machines	43	
Telephones	229			Battery charging stations	52	
<u>SAFETY EQUIPMENT:</u> Self-rescuers	-250	Oxygen breathing apparatus (McCaa&Chemox) 48				

GENERAL INFORMATION

Shaft mines - 10	Rock slopes	27	Rock tunnels - 17	Drifts	95
Number of mines: On railroads		35	Roof-bolted		11
Tons of coal chemically treated		178,865	Tons of washed coal		13,965

D I R E C T O R Y

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Annex Coal	Florence	Annex	Same	Fre.
Aztec Fuel	Walsenburg	Caddell #2	"	Huerfano
Baldy Coal	Trinidad	Baldy	"	Las A.
Barnell, Geo. M.	Walden	Marr	"	Jackson
Bear Canon Coal	Trinidad	Bear Canon #6	Vallorso	Las A.
Bear Coal	Somerset	Bear	Same	Gunn.
Beer Coal & Const.	Florence	Beer Strip	"	Fre.
Bellino, Frank	Pagosa Springs	Bellino	"	Arch.
Bendetti, Henry	Glenwood Spgs.	Atlas #2	"	Garfield
Berwind Mining	Weston	Melonas	"	Las A.
Berwind Canon Coal	Trinidad	Berwind Canon	"	Las A.
Bisulco, Alex	Aguilar	Bisulco	"	" "
Bisulco, Alex	"	New Primrose	"	" "
Black Beauty Coal	Walsenburg	Black Beauty	"	Huerfano
Black Diamond Fuel	Lafayette	Black Diam. #2	"	Boulder
Black Knight Coal	Florence	Black Knight #2	Same	Fre.
Block Coal	Steamboat Spgs.	Block #2	"	"
Blue Blaze Coal	Walsenburg	Blue Blaze	"	Huerfano
Blue Ribbon Coal	Cedaredge	Blue Ribbon	"	Delta
Boscia Coal	Oak Creek	Apex	"	Routt
Boulder Valley Coal	Denver	Bo. Val. #3-Baum	Dacono	Weld
Brodhead Coal	Trinidad	Brodhead #2	Same	Las A.
Brooks, Ira T.	Cedaredge	Green Valley#2	"	Delta
C. F. & I. Corp.	Denver	Allen-E. Portal	Weston	Las A.
C. F. & I. Corp.	"	Allen-W.	"	" "
C. F. & I. Corp.	Denver	Frederick	Valdez	Las A.
C. F. & I. Corp.	"	Morley	Morley	" "
Caldirola Fuel	Canon City	Caldirola #2	Same	Fre.
Canon Blk. Diam. Coal	Florence	Can. Blk. Diam.	"	"
Canon Chief Mining	Canon City	Canon Chief	"	"

RAILROADS - OPENINGS - SEAMS - PRODUCTION

Superintendent	R. R.	Daily Cap.	OPENINGS			SEAM			TONS
			Shaft Depth	Rock Slope	Tunnel Length	Ft-In	Pitch % - °		
Nickie Rocchio	-	17	-	-	-	x	5 6	4°	3,794
Ygnacio Ruiz	-	5	-	-	-	0	4 10	4°	500
E. W. Meggison	-	40	-	200	-	0	5	-	7,603
Geo. M. Barnell	-	20	-	-	-	0	60	45°	2,267
Charles Beuchat	C&S	200	-	-	-	x	6	1½%	104
Tony Bear	D&RG	475	-	-	300	0	8	4%	48,066
Lloyd J. Beer	-	100	S T R I P				3 6	6%	3,355
Frank Bellino	-	3	-	-	-	x	3 4	2°	76
H. Bendetti	-	10	-	-	-	x	5	50%	83
John Lovato	C&S	20	-	144	-	0	4 10	7%	53
J. P. McIlwee	-	15	-	-	-	x	4	8°	1,670
Alex Bisulco	-	6	-	-	-	x	4	6%	411
Alex Bisulco	-	4	-	-	-	x	3	6%	72
Steve Tellari	-	7	-	-	100	x	3 9	4%	1,466
Charles Liley	-	150	268	-	-	0	6	-	9,131
C. Alvidrez	-	4	-	-	-	x	3	3°	899
Irene Gould	-	5	-	-	-	x	7	5°	212
A. Amiday, Sr.	-	25	-	-	-	x	3 6	5%	1,876
Neil Jones	-	50	-	-	-	0	6	6°	4,943
A. Boscia	-	10	-	-	-	x	4 6	6%	1,046
Thomas Harris	UP	1,300	240	-	-	0	7	-	102,953
Sam Vasquez	-	25	-	-	-	x	3 6	12%	3,021
Ira T. Brooks	-	50	-	150	-	0	6	4%	5,438
L. W. Ingles	C&W	3,000)	-	1,578	-	0	5	2-30%)	396,994
L. W. Ingles)	-	-	-	-	x	5	2-30%)	
F. C. Bennett	C&W	2,300	-	-	-	x	3 6	-	312,943
J. W. Boddycomb	ATSF	800	-	-	-	x	5	2%	124,612
Tony Mangino	-	50	-	480	-	0	4 6	3%	5,332
Frank Yellico	-	75	-	-	-	x	6 7	6%	17,949
Louis Dussart	-	50	-	200	-	0	6	3%	8,663

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Canon Monarch Coal	Florence	Pine Gulch #3	Same	Fre.
Canon National Coal	"	Canon National	"	"
Canon Zenith Coal	"	Canon Zenith	"	"
Carbon Fuel	Trinidad	Anchor #2	"	Las A.
Cason, Vernon	Durango	Blue Flame	"	La P.
Champion Coal Mng.	Somerset	Hawk's Nest	Same	Gunn.
Chandler Coal	Canon City	Chandler #2	"	Fre.
Chandler Crk. Coal	Florence	Chandler Creek	"	"
Cimino, Nick	Trinidad	Starkville #7	"	Las A.
Clark Coal	Somerset	Edwards	"	Gunn.
Clarke Coal	Palisade	Winger	Same	Mesa
Clayton Coal	Denver	Lincoln	Erie	Weld
Clayton Coal	"	Washington	"	"
Coal Creek Can. Mng.	Florence	Coal Creek Can.	Same	Fre.
Coles, W. E.	New Castle	New Castle	"	Garfield
Colo. & Utah Coal	Denver	Harris	Mt. Harris	Routt
Colowyo Coal	"	Red Wing	Axial	Moffat
Commander, The	"	Commander Strip	Hayden	Routt
Conda, Leonard R.	Boulder	New Gorham	Superior	Boulder
Corley Co., The	Colorado Spgs.	Corley #6	Florence	Fre.
Corley Co., The	Colorado Spgs.	Pioneer Strip	Florence	Fre.
Crane, LeRoy R.	Bayfield	Columbine	Same	Arch.
Delcarbon Coal	Walsenburg	Calumet #2	"	Huerf.
Double Dick Coal	Florence	Double Dick	"	Fre.
Dry Creek Coal	Hayden	Crow Bar	"	Routt
Dunn Coal	Oak Creek	Keystone	Same	Routt
Dunn Coal	" "	Moffat-A	"	"
Dunn Coal	" "	Moffat-B Strip	"	"
Dunn Coal	" "	Seven Pt. Strip	"	"
Eaglehead Coal	Grand Junction	McGinley	"	Mesa

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		TONS	
			Shaft Depth	Rock Slope	Rock/Drift Length	Tunnel	Ft-In	Pitch % - °		
Lloyd J. Beer	-	50	-	-	-	x	4	6	4°	1,872
Raymond Jermance	-	100	-	375	-	0	5	-	7°	18,664
Nick J. Moschetti	-	15	-	-	-	x	3	2	5°	1,770
Joe M. Garcia	-	10	-	-	-	x	5	-	6°	917
Vernon Cason	-	15	-	-	20	0	6	6	8%	2,576
Ralph Audin	-	350	-	300	-	0	8	-	2°	50,140
Chas. Silengo	-	16	-	650	-	0	3	-	4%	1,654
Pete Bettelli	-	25	-	300	-	0	3	8	5%	3,349
Nick Cimino	-	8	-	-	-	x	4	-	-	578
Ira Cordray	D&RG	106	-	-	-	x	7	-	-	12,529
R. M. Clarke	-	7	-	-	-	x	4	6	5%	563
W. D. Ferguson	UP	2,000	-	1,800	-	0	10	-	-	54,739
John Stevens	UP	1,500	430	-	-	0	10	-	-	143,549
Felix DelMonte	-	35	-	700	50	0	5	-	6%	4,857
W. E. Davis	-	50	-	-	400	0	42	-	48°	1,509
Louis La Salle	D&RG	1,500	-	200	300	0	9	3	18%	86,698
Ernest Todd	-	600	-	125	-	0	23	-	2%	85,683
Louis Ciani	-	10	-	S T R I P	-	13	-	-	4°	400
Leonard Conda	-	10	-	-	-	0	5	6	27%	631
Paul Brenton	ATSF	500	-	500	-	0	4	-	8%	24,243
Paul Brenton	ATSF	150	-	S T R I P	-	6	-	-	8%	11,354
LeRoy R. Crane	-	2	-	-	-	x	12	-	50°	496
George Sudar	D&RG	300	-	600	-	0	5	6	-	15,870
Joe Rohar	-	100	-	-	-	x	5	6	-	11,889
Tony Amedei	-	250	-	300	-	0	8	-	12°	24,110
Charles Reese	D&RG	500	-	-	-	x	9	-	8°	45,959
Charles Reese	D&RG	500	-	1,900	-	0	6	6	7°	7,297
Art Rudford	-	350	-	S T R I P	-	3	4	-	6°	1,836
Art Rudford	-	200	-	S T R I P	-	12	-	-	2%	3,149
Willard C. Lutz	-	15	-	-	-	x	7	-	-	2,891

COUNTY	ADDRESS	MINE	ADDRESS	COUNTY
Edna Coal	Denver	Edna Strip	Oak Creek	Routt
Ellis Coal	Somerset	Black Beauty	Same	Gunn.
Fabec, Robert	Trinidad	Aguilar	Imperial	Las A.
Fogg, Lyndon H.	Cedaredge	Red Canon	#1 Same	Delta
Franceville Coal	Colorado Spgs.	Francev.	Strip "	El Paso
Franklin, Leo	Trinidad	Burro Canyon	#3 Same	Las A.
Garcia&Mackey	Pagosa Springs	Garcia	Same	Arch.
George, Glenn	La Veta	George	"	Huerf.
Giuliano Coal	Aguilar	Gem	"	Las A.
Giuliano & Sons Coal	Florence	Cedar Canon	"	Fre.
Golden Quality Coal	Florence	Golden Qual.	#3 Same	Fre.
Graden Coal	Denver	Graden	Dacono	Weld
Guadagnoli Bros.	Trinidad	Engleville	Same	Las A.
Haas Coal	Rifle	I. H. I. #2	"	Garfield.
Haas Coal	"	I. H. I #3	"	"
Halcumb, Claud O.	Fruita	Hunter	Same	Mesa
Hay Gulch Coal	Hesperus	Hay Gulch	#3 "	La P.
Henderson, J. B.	"	Coal King	#2 "	" "
Hesperus Coal	"	Hesperus	#3 "	" "
Hicks, Ernest	Grand Junction	Hidden Treasure	Fruita	Mesa
Hightchew, Lester	Mancos	La Plata	Same	La P.
Hi-Grade Coal	Florence	Hi-Grade	"	Fre.
Hinkle Coal	Gunnison	Hinkle	"	Gunn.
Hi-Way Coal	Denver	Hi-Way	Lafayette	Boulder
Horace Anth. Miners	Crested Butte	Horace	Same	Gunn.
Imperial Coal	Denver	Eagle	Erie	Weld
Imperial Coal	"	Imperial	"	"
Iuppa, Albert, Jr.	Trinidad	Little Al's	Same	Las A.
Jakovac, Frank	Oak Creek	Frank's	"	Routt
Jenkins & Mathis	Meeker	Rienau	"	Rio B.
Juanita Coal & Coke	Bowie	King	"	Delta

Superintendent	R. R.	Daily Cap.	OPENINGS					SEAM		TONS
			Shaft Depth	Rock Slope	Rock/Drift Tunnel Length			Ft-In	Pitch % - °	
A. R. Ross	D&RG	1, 600		S T R I P			5	6 ⁰	127, 970	
Ellis Axelson	-	50	-	-	65	0	10	6	4%	9, 261
Robert Fabec	-	75	-	-	-	x	5	7	5%	1, 616
L. H. Fogg	-	30	-	-	-	x	4	6	6%	3, 226
Lee Gordley	-	50		S T R I P			8	-	4, 519	
Leo Franklin	-	5	-	-	-	x	5	6	-	39
Simon B. Garcia	-	3	-	-	-	x	7	20 ⁰	28	
Glenn George	-	4	-	60	-	0	8	70	155	
L. Giuliano	-	10	-	1600	-	0	3	1%	1, 765	
M. Giuliano	ATSF	100	-	-	-	x	6	2%	14, 333	
D. Carestia	-	10	-	-	-	x	3	6	8%	3, 430
Al Seip	UP	250	325	-	-	0	6	8	-	21, 057
C. Guadagnoli	-	13	-	-	-	x	9	-	2, 780	
Wm. Haas, Jr.	-	40	-	-	-	x	12	67 ⁰	8, 774	
Wm. Haas, Jr.	-	47	-	650	-	0	9	67 ⁰	9, 045	
C. O. Halcumb	-	8	-	-	300	0	9	5 ⁰	804	
W. C. Hunt	-	10	-	-	-	x	5	10	3 ⁰	1, 439
J. B. Henderson	-	3	-	-	45	0	6	6	70	682
Joe DeLuzio	-	5	-	-	-	x	8	6	1%	104
Ernest Hicks	-	25	-	-	-	x	3	5	2, 137	
L. Hightchew	-	3	-	-	-	x	5	10	5 ⁰	50
J. R. Ramírez	-	12	-	-	-	x	4	5 ⁰	964	
James C. Harris	-	8	-	-	-	x	8	8%	446	
Frank Yakes, Jr.	CB&Q	150	385	-	-	0	3	6	1 1/2%	3, 940
Joe Saya	-	5	-	-	-	x	2	1	5	434
Frank Kolar	UP	1, 500	370	-	-	0	9	1 1/2%	224, 437	
Frank Kolar	UP	900	300	-	-	0	10	6	-	17, 945
A. Iuppa, Jr.	-	5	-	-	-	x	4	-	-	68
F. Jakovac	-	5	-	-	-	x	8	6	5 1/2%	110
Wm. Jenkins, Jr.	-	35	-	-	-	x	20	18	5, 925	
W. D. Bowie	D&RG	200	-	-	-	x	14	7%	19, 847	

COUNTY	ADDRESS	MINE	ADDRESS	COUNTY
Keck, W. R.	Norwood	Keck-Reliance	Same	San M.
Kerr Coal	Cameo	Cameo	"	Mesa
Leader Coal	Sopris	Leader #2	"	Huerf.
Liberty Mining	Canon City	Canon Liberty	"	Fre.
Lovisone & Colarelli	" "	L. & C. #2	"	"
Major Coal	Walsenburg	Major #2	Same	Huerf.
Marion Coal	Glenwood Spgs.	Marion-Kilroy	"	Garfield
Martinez & Garcia	Cokedale	Martinez	"	Las A.
Mathews, John	Oak Creek	Johnnie's	"	Routt
McNeil Coal Corp.	Denver	Sterling	Dacono	Weld
Minerals' Dev. Corp.	Salt Lake City, U.	Oliver #2	Somerset	Gunn.
Minerals' Dev. Corp.	" " "	" Oliver #3	"	"
Minerals' Dev. Corp.	" " "	" Somerset	"	"
Minoletti Bros.	Durango	Minoletti	Same	La P.
Montez, Manuel H.	Trinidad	Delagua #3½	"	Las A.
Morasky Coal & Blocks	Trinidad	Grey Creek #6	Same	Las A.
Morning Glory Coal	Walsenburg	Morning Glory	"	Huerf.
Nix, Ammon E.	Nucla	Independence	"	Montrs.
Ojo Canon Coal	Walsenburg	Ojo Canon #2	"	Huerf.
Osage Coal	Kansas City, Mo.	Osage Strip	Steam. Spgs.	Routt
Pantazes, Pete	Aguilar	Prosperity #2	Same	Las A.
Paonia Farmers Coal	Paonia	Paonia Farmers	"	Delta
Partch Bros.	Gunnison	Nu-Mine #1	"	Gunn.
Partch Bros.	"	Nu-Mine #2	"	"
Paterson, Mack R.	Fruita	Hy-Grade	"	Mesa
Peacock Coal	Durango	Peacock	Same	La P.
Peacock Coal	Trinidad	Peacock	"	Las A.
Peaks Coal	Walsenburg	Peaks	"	Huerf.
Peerless Coal	Durango	Peerless	"	La P.
Phillips, H. B.	Palisade	Gearhart	"	Mesa

Superintendent	R. R.	Daily Cap.	OPENINGS			SEAM			TONS	
			Shaft Depth	Rock Slope	Rock/Drift Tunnel Length	Ft-In	Pitch % - °			
W. R. Keck	-	2	-	-	-	x	2	8	1%	56
W. M. Kerr, Jr.	D&RG	75	-	-	500	0	6	7%	17, 581	
C. Langowski	-	10	-	-	-	x	3	2	6°	1, 996
T. J. Smith	-	35	-	-	-	x	3	4	6%	5, 429
T. Colarelli	-	25	-	-	-	x	5	-	8%	3, 620
Louis Bellotti	D&RG	75	-	75	-	0	5	5	15%	3, 081
S. R. Cochran	-	5	-	-	-	x	5	-	40°	1, 350
A. Martinez	-	2	-	-	10	x	2	-	-	12
John Mathews	-	5	-	-	-	x	4	2	4°	496
A. W. Newcomb	UP	550	358	-	-	0	7	11	-	55, 710
Carl E. Smith	D&RG	600	-	-	100	0	7	6%	12, 829	
Carl E. Smith	D&RG	300	-	-	100	0	7	6%	22, 876	
Wm. O. Luoma	D&RG	1,000	-	-	-	0	9	6%	88, 198	
Joe Minoletti	-	20	-	-	-	x	5	6	6%	3, 368
M. H. Montez	-	3	-	-	-	x	8	-	-	102
J. F. Morasky	-	22	-	-	-	x	2	8	2°	5, 827
G. M. Turner	D&RG	175	-	-	-	x	4	6	9%	13, 698
A. E. Nix	-	25	-	-	-	x	4	6	6°	2, 689
Sam Bellah	-	4	-	-	-	x	3	2	35°	122
G. E. Ralston	D&RG	1,500		S T R I P			8		10%	144, 686
P. Pantazes	-	4	-	-	-	x	2	6	7°	833
Glenn Anglin	-	40	-	-	-	x	8	6	7°	2, 051
Jos. E. Partch	-	75	-	-	-	x	6	-	3%	16, 075
Jos. E. Partch	-	75	-	-	-	x	6	-	3%	3, 143
M. R. Paterson	-	15	-	-	-	x	3	6	15%	2, 780
Jose I. Valdez	-	20	-	-	-	x	6	-	3%	4, 491
Eugene Lopez	-	6	-	-	-	x	5	10	2%	920
Eloy Montez	-	10	-	-	-	x	2	6	5°	907
Everett Bixler	-	15	-	-	-	x	4	6	6%	1, 382
H. B. Phillips	-	35	-	-	-	x	5	6	12°	5, 155

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Pikes Peak Fuel	Colorado Spgs.	Pikeview	Pikeview	El Paso
Pinnacle Coal	Hayden	Rice	Same	Routt
Premium Coal	Florence	Caldirola #1	"	Fre.
Rapson Coal	Walsenburg	Rapson #2	"	Las A.
Red Ash Coal	"	Maitland #1	"	Huerf.
Red Ash Coal	Walsenburg	Maitland #2	Same	Huerf.
Red Glow Coal	Aguilar	Red Glow	"	Las A.
Rex Carbon Fuel	Florence	Rex Carbon	"	Fre.
Rifle Coal	Rifle	North Canyon	"	Garfield
Rugby Coal	Trinidad	Rugby #1	La Veta	Huerf.
Rugby Coal	Trinidad	Rugby #6	La Veta	Huerf.
Russell, W. E. Coal	Denver	Crown	Superior	Boulder
Sanchez, Ben	Boncarbo	Cash & Carry	Same	Las A.
Sarmiento Coal	Florence	Pine Gulch #2	"	Fre.
Scott-Ruiz Coal	Trinidad	Starkville #4	"	Las A.
Shamrock Coal	Denver	Shamrock	Erie	Weld
Skinner Coal	Walsenburg	Gordon	Same	Huerf.
Smith, A. G.	Gunnison	Baldwin	"	Gunn.
Smith, Irvin A.	Hesperus	King	"	La Plata
So. Blk. Diam. Coal&Oil	Trinidad	Franklin	Delagua	Las A.
Staples, S. L., Jr.	Gunnison	Ohio Creek #2	Same	Gunn.
States, Welland W.	Cedaredge	Top	"	Delta
Steele Bros.	Fruita	Farmers-Nearing	"	Mesa
Strainer Coal	Canon City	Canon Wolf Crk.	"	Fre.
Sun Coal	Hayden	Sun	Same	Routt
Sunlight Coal	Glenwood Spgs.	Sunlight	"	Garf.
Supancic, Louis	Cameo	River View	"	Mesa
Taylor Coal Mining	Craig	Blue Streak	"	Rio B.

Superintendent	R. R.	Daily Cap.	OPENINGS			SEAM		TONS	
			Shaft Depth	Rock Slope	Rock/Tunnel Length	Ft-In	Pitch % - °		
Robert Welch	D&RG	500	175	750	-	0	8	6½%	70,939
C. A. Bowerman	D&RG	35	-	-	-	x	10	17%	5,780
Juan Mata	-	20	-	-	-	x	3	6 3%	1,335
Adam Galli	C&S	40	-	2,200	-	0	5	12%	8,629
M. J. Judiscak	-	50	-	-	-	x	4 6	5%	3,948
M. J. Judiscak	-	30	-	-	-	x	3	5%	1,471
Wm. H. Smith	-	6	-	-	-	x	3 6	15%	350
J. M. Williams	-	70	-	450	-	0	3 10	12%	12,455
E. A. Haas	-	8	-	-	200	0	8 4	80°	1,223
C. S. Dawn	-	10	-	-	-	x	3 6	13°	264
C. S. Dawn	-	10	-	-	-	x	3 6	13°	1,055
Al Seip	-	175	-	238	-	0	7	1-30%	20,250
Ben Sanchez	-	2	-	-	-	x	5	-	15
D. E. Sarmiento	-	12	-	-	-	x	3	4°	1,907
W. C. Scott	-	14	-	-	-	x	3 10	-	1,791
F. L. Peart	UP	300	110	-	-	0	10 1	1°	6,515
Alfred Newman	D&RG	125	-	-	-	x	4	5%	11,661
A. G. Smith	-	15	-	-	-	x	6	5%	1,928
I. A. Smith	-	15	-	-	-	x	6	2°	3,550
Frank Coke	-	15	-	-	-	x	6	2%	1,573
S. L. Staples	-	8	-	-	-	x	5 6	5%	2,362
W. W. States	-	60	-	180	-	0	7	5°	3,281
R. Steele	-	5	-	-	-	x	6	5°	633
A. Strainer, Jr.	-	20	-	-	-	x	6 6	2%	3,098
Tom Barton	-	2	-	-	-	x	9	-	397
Joe M. Rogers	-	50	-	200	-	0	8 6	43°	5,483
L. Supancic	-	25	-	-	-	x	6	5%	4,302
Carl Tesitor	-	100	-	-	-	x	27	13%	6,891

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Thompson Creek Coal Denver & Coke Corp.		Thomp. Crk. #1	Carbondale	Pitkin
Thompson Creek Coal Denver & Coke Corp.		Thomp. Crk. #2	"	"
Tolley, C. A. & Eileen	New Castle	Harvey Gap	Same	Garfield
Tomahawk Coal	Delta	Tomahawk	Same	Delta
Vento Coal	Florence	Vento	"	Fre.
Victory Coal	Durango	Victory #1	"	La P.
Victory Coal	"	Victory #2	"	" "
Vidmar, Charles	Palisade	Blue Flame	"	Mesa
White River Fuel	Rangely	White River	Same	Rio B.
Wilson, Glen E.	Cortez	Montezuma #2	"	Montez.
Wright, C. L.	Hesperus	Burnwell #2	"	La P.
Wright Fuel	"	Wright #2	"	" "
Zellitti, F., N., & C.	Durango	Morning Star	"	" "

Superintendent	R. R.	Daily Cap.	OPENINGS			SEAM		TONS	
			Shaft Depth	Rock Slope	Rock/Drift Tunnel Length	Ft-In	Pitch % - °		
Andrew Allan	-	400	-	-	-	x	5	30°	86,752
Andrew Allan	-	22	-	-	-	x	5	30°	1,854
C. A. Tolley	-	30	-	-	-	x	6	45°	2,482
Gene Yellico	-	26	-	1,000	-	0	11	4%	4,594
Tony Vento	-	100	-	-	-	x	5	4%	14,735
Wm. Gerard	-	80	-	-	-	x	6	6%	14,120
Wm. Gerard	-	25	-	-	-	x	4	-	700
Chas. Vidmar	-	25	-	-	-	x	5	4%	2,104
M. E. Staley	-	80	-	-	-	x	8	8%	5,723
G. E. Wilson	-	15	-	-	75	0	4 6	2%	499
C. L. Wright	-	12	-	600	-	0	6 4	2%	5,756
C. L. Wright	-	25	-	600	-	0	5 10	4%	1,744
F. Zellitti	-	25	-	-	-	x	5 10	5%	2,119

REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

COUNTY MINE	COMPANY OR OPERATOR	No. Men	Total Days	TONNAGE	ACCIDENTS Fatal Non-Fat.
<u>ARCHULETA</u>					
Bellino	Frank Bellino	1.3	35	76	
Columbine	LeRoy R. Crane	1.4	128	496	
Garcia	Simon B. Garcia & E. W. Mackey	2.0	15	28	
<u>TOTALS - 3</u>		4.7	178	600	-
<u>BOULDER</u>					
Black Diamond #2	Black Diamond Fuel	11.5	125	9,131	1
Crown	Wm. E. Russell Coal	20.3	164	20,250	1
Hi-Way	Hi-Way Coal	25.0	27	3,940	
	Leonard R. Conda	3.1	96	631	
<u>TOTALS - 4</u>		59.9	412	33,952	1 1
<u>DELTA</u>					
Blue Ribbon	Blue Ribbon Coal	2.6	175	4,943	
Green Valley #2	Ira T. Brooks	4.2	187	5,438	
King	Juanita Coal & Coke	28.0	101	19,847	
Paonia	Farmers Coal	2.8	143	2,051	
Red Canon #1	Lyndon H. Fogg	4.1	156	3,226	
Tomahawk	Tomahawk Coal	5.2	176	4,594	
Top	Welland W. States	3.6	190	3,281	
<u>TOTALS - 7</u>		50.5	1,128	43,380	-
<u>EL PASO</u>					
Franceville Strip	Franceville Coal	1.4	209	4,519	
Pikeview	Pikes Peak Fuel	29.2	285	70,939	3
<u>TOTALS - 2</u>		30.6	494	75,458	- 3

FREMONT

<u>Annex</u>	Annex Coal	2.7	218	3,794		
Beer Strip	Beer Coal & Construction	3.5	70	3,355		
Black Knight #2	Black Knight Coal	2.1	193	899		
Caldirola #1	Premium Coal	2.3	112	1,335		
Caldirola #2	Caldirola Fuel	3.8	220	5,332		
Canon Black Diamond	Canon Black Diamond Coal	4.7	248	17,949		
Canon Chief	Canon Chief Mining	5.9	236	8,663		
Canon Liberty	Liberty Mining	3.7	194	5,429		
Canon National	Canon National Coal	5.0	240	18,664		
Canon Wolf Creek #2	Strainer Coal	4.9	224	3,098		
Canon Zenith #2	Canon Zenith Coal	2.8	146	1,770		
Cedar Canon	Giuliano & Sons Coal	6.5	222	14,333		
Chandler #2	Chandler Coal	4.7	109	1,654		
Chandler Creek	Chandler Creek Coal	5.4	151	3,349		
Coal Creek Canon	Coal Creek Canon Mining	4.0	145	4,857		
Corley #6	The Corley Co.	10.3	229	24,243		
Double Dick	Double Dick Coal	6.0	236	11,889		
Golden Quality #3	Golden Quality Coal	4.3	173	3,430		
Hi-Grade	Hi-Grade Coal	2.7	93	964		
L. & C. #2	Lovisone & Colarelli	4.9	139	3,620		
Pine Gulch #2	Sarmiento Coal	3.3	200	1,907		
Pine Gulch #3	Canon Monarch Coal	3.3	119	1,872		
Pioneer Strip	The Corley Co.	3.9	229	11,354		
Rex Carbon	Rex Carbon Fuel	8.8	213	12,455		
Vento	Vento Coal	7.1	241	14,735		
TOTALS - 25		116.6	4,600	180,950	1	10
GARFIELD						
Atlas #2	Henry Bendetti	1.0	37	83		
Harvey Gap	C. A. & Eileen Tolley	2.8	218	2,482		
I. H. I. #2	Haas Coal	5.1	244	8,774		
I. H. I. #3	Haas Coal	4.7	247	9,045		

COUNTY	MINE	COMPANY OR OPERATOR	No. Men	Total Days	TONNAGE	ACCIDENTS	
						Fatal	Non-Fat.
GARFIELD (Cont.)							
Marion - Kilroy	Clsd.	Marion Coal	2. 3	261	1, 350		
New Castle		W. E. Coles	5. 0	25	1, 509		
North Canyon		Rifle Coal	2. 8	160	1, 223		
Sunlight		Sunlight Coal	7. 4	204	5, 483		
TOTALS - 8			31. 1	1, 396	29, 949	-	3
GUNNISON							
Baldwin		A. G. Smith	2. 8	207	1, 928		
Bear		Bear Coal	49. 1	118	48, 066	2	
Black Beauty		Ellis Coal	7. 7	187	9, 261	3	
Edwards		Clark Coal	13. 5	114	12, 529		
Hawk's Nest		Champion Coal Mining	26. 0	168	50, 140		
Hinkle		Hinkle Coal	2. 1	81	446		
Horace	-	Horace Anth. Miners Assoc.	2. 0	123	434		
North Fork	(1 mo.)	North Fork Coal	2. 0	4	75		
Nu-Mine		Partch Brothers	16. 4	190	16, 075		
Nu-Mine #2 (Kubler)		Partch Brothers	6. 0	93	3, 143		
Ohio Creek #2		S. L. Staples, Jr.	2. 6	236	2, 362		
Oliver #2	Clsd.	Minerals Development Corp.	46. 6	38	12, 829	1	
Oliver #3 (No. Fork)		Minerals Development Corp.	25. 0	94	22, 801	1	
Somerset		Minerals Development Corp.	71. 1	125	88, 198	3	
TOTALS - 13			272. 9	1, 778	268, 287	8	
HUERFANO							
Black Beauty		Black Beauty Coal	3. 0	200	1, 466		
Blue Blaze		Blue Blaze Coal	4. 5	64	1, 876		
Caddell #2		Aztec Fuel	2. 4	146	500		
Calumet #2		Delcarbon Coal	17. 9	246	15, 870		
George (Occidental)		Glenn George	1. 0	127	155		
						18	

Gordon	Skinner Coal	11,661	1	
Leader #2	Leader Coal	2,228	1	
Maitland #1	Red Ash Coal	6,179	3,948	
Maitland #2	Red Ash Coal	5,673	1,471	
Major #2	Major Coal	4,2113	3,081	1
Morning Glory	Minnequa Fuel/Morn. Glory Coal	14,6199	13,698	
Ojo Canon #2.	Ojo Canon Coal	4,044	122	
Peaks	Peaks Coal	2,8167	907	
Rugby #1	Rugby Coal	3,536	264	1
Rugby #6	Rugby Coal	4,9136	1,055	
TOTALS - 15		84,32,189	58,070	- 4
JACKSON				
Marr	George M. Barnell	3,0249	2,267	1
TOTALS - 1		3,0249	2,267	- 1
LA PLATA				
Blue Flame	Vernon Cason	2,2261	2,576	
Burnwell #2	C. L. Wright	5,9202	5,756	
Coal King #2	J. B. Henderson	1,7122	682	
Hay Gulch #2	Hay Gulch Coal	2,2211	1,439	
Hesperus #3	Hesperus Coal	3,518	104	
King	Irvin A. Smith	3,0205	3,550	
La Plata	Lester Hightchew	1,016	50	
Minoletti	Minoletti Brothers	4,0136	3,368	
Morning Star	F., N., & C. Zellitti	2,1196	2,119	
Peacock	Peacock Coal	2,8260	4,491	
Peerless	Peerless Coal	2,3114	1,382	
Victory #1 & #2	Victory Coal	10,0246	14,820	
Wright #2	Wright Fuel	2,585	1,744	
TOTALS - 13		43,22,072	42,081	-

COUNTY	MINE	COMPANY OR OPERATOR	No. Men	Total	TONNAGE	ACCIDENTS	
				Days		Fatal	Non-Fat.
LAS ANIMAS							
Aguilar Imperial	Robert Fabec	3.1	182	1,616			
Allen (2 Portals)	C. F. & I. Corp.	376.7	156	396, 994			6
Anchor #2	Carbon Fuel	4.0	95	917			
Baldy	Baldy Coal	9.8	211	7, 603			1
Bear Canon #6	Clsd. Bear Canon Coal	9.0	8	104			
Berwind Canon	Berwind Canon Coal	4.1	115	1, 670			1
Bisulco	Alex Bisulco	3.7	69	411			
Brodhead #2	Brodhead Coal	5.1	238	3, 021			
Burro Canyon #3	Leo Franklin	2.0	12	39			
Cash & Carry	Ben Sanchez	1.0	10	15			
Delagua #3½	Manuel Montez	2.5	36	102			
Engleville	Guadagnoli Brothers	2.9	224	2, 780			
Franklin	So. Black Diam. Coal & Oil	4.8	111	1, 573			
Frederick	C. F. & I. Corp.	597.8	156	312, 943			
Gem	Giuliano Coal	3.8	171	1, 765			
Grey Creek #6	Morasky Coal & Blocks	6.5	242	5, 827			
Little Al's	Albert Uppa, Jr.	1.3	26	68			
Martinez	A. Martinez & O. B. Garcia	2.0	4	12			
Melonas	Berwind Mining	3.0	9	53			
Morley	C. F. & I. Corp.	202.2	154	124, 612			4
New Primrose	Alex Bisulco	1.3	16	72			
Peacock	Peacock Coal	2.6	192	920			
Prosperity #2	Pete Pantazes	2.0	287	833			
Rapson #2	Taylor Coal Mng/Rapson Coal	9.1	163	8, 629			
Red Glow	Red Glow Coal	3.0	130	350			
Starkville #4	Scott-Ruiz Coal/A. Uppa C.	5.6	127	1, 791			
Starkville #7	Nick Ciminio	4.1	98	578			
TOTALS - 27			1273.0	3, 242	875, 298	1	19

<u>MESA</u>	Blue Flame	Charles Vidmar	2. 3	202	2, 104
	Cameo	Kerr Coal	13. 8	168	17, 581
Farmers - Nearing		Steele Brothers	2. 0	113	633
Gearhart		H. B. Phillips	9. 5	200	5, 155
Hidden Treasure		Ernest Hicks	1. 8	141	2, 137
Hunter		Claud O. Halcumb	2. 3	106	804
Hy-Grade		Mack R. Paterson	3. 3	232	2, 780
McQinley		Eagle Head Coal	2. 6	229	2, 891
River View		Louis Supancic	4. 4	190	4, 302
Winger		Clarke Coal	2. 0	99	563
<u>TOTALS - 10</u>			44. 0	1, 680	38, 950
<u>MOFFAT</u>					- -
Red Wing		Colowyo Coal	27. 2	150	85, 683
<u>TOTALS - 1</u>			27. 2	150	85, 683
<u>MONTEZUMA</u>					- -
Montezuma #2		Glen E. Wilson	2. 4	127	499
<u>TOTALS - 1</u>			2. 4	127	499
<u>MONTROSE</u>					- -
Independence		Ammon E. Nix	3. 3	231	2, 689
<u>TOTALS - 1</u>			3. 3	231	2, 689
<u>PITKIN</u>					- -
Thompson Creek #1		Thompson Ck. Coal & Coke Corp.	52. 8	240	86, 752
Thompson Creek #2		Thompson Ck. Coal & Coke Corp.	4. 2	84	1, 854
<u>TOTALS - 2</u>			57. 0	324	88, 606
<u>RIO BLANCO</u>					5
Blue Streak		Taylor Coal Mining	3. 9	129	6, 891
Rienau		Jenkins & Mathis Coal	3. 3	242	5, 925
White River		White River Fuel	3. 9	146	5, 723
<u>TOTALS - 3</u>			11. 1	517	18, 539
					- -

COUNTY ROUTE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
Apex	Boscia Coal	1.2	189	1,046		
Arrowhead-(Moffat#3)	Arrowhead Coal - 2 Mo.	75.5	12	5,247		
Block #2	Block Coal	2.0	67	212		
Commander Strip	The Commander	7.0	31	400		
Crow Bar	Dry Creek Coal	20.8	124	24,110		
Edna Strip	Edna Coal	42.8	101	127,970		
Frank's	Frank Jakovac	1.0	22	110		
Harris	Colo. & Utah Coal	101.4	81	86,698		
Johnnie's	John Mathews	1.7	208	496		
Keystone	Dunn Coal	63.2	111	45,959		
Moffat A (Arrowhead)	Dunn Coal - 2 Mo.	32.0	11	2,050		
Moffat B Strip	Dunn Coal	3.5	10	1,836		
-	Osage Strip	33.5	105	144,686		
Rice	Osage Coal	3.9	165	5,780		
Seven Point Strip	Pinnacle Coal	3.6	17	3,149		
Sun	Dunn Coal	1.0	139	397		
	Sun Coal					
TOTALS - 15		394.1	1,393	450,146	-	8
SAN MIGUEL						
Keck-Reliance	W. R. Keck	1.0	50	56		
TOTALS - 1		1.0	50	56	-	
WELD						
Bldr. Val. #3 & Baum	Boulder Valley Coal	62.8	187	102,953		
Eagle	Imperial Coal	89.2	216	224,437		
Graden	Graden Coal	18.9	157	21,057		
Imperial	Imperial Coal	44.0	34	17,945		
Lincoln	Clayton Coal	36.3	164	54,739		

WELD (Cont.)	Shamrock Coal	6.4	56	6,515	
Shamrock					
Sterling					
Washington					
TOTALS - 8		368.1	1,161	626,905	- 14
GRAND TOTALS		2878.0	23,371	2,922,365	3 86

COAL SHIPMENT AND DISPOSAL

COUNTY	RAILROAD	TRUCK OR WAGON	POWER & HEAT	OUT OF STATE	CHEM. TREATED
Archuleta		600			
Boulder	1,980	31,852	120		1,872
Delta	19,467	23,012	901	1,470	2,738
El Paso	3,227	53,204	19,027		
Fremont	9,850	171,000	100	4,755	50
Garfield		29,949			450
Gunnison	203,936	62,283	2,068	105,672	33,265
Huerfano	23,362	34,708		13,979	2,599
Jackson		2,267			
La Plata	11,320	30,736	25		
Las Animas	831,225	34,331	9,742	391	
Mesa	6,954	31,896	100		2,096
Moffat	73,732	11,951		30,191	36,928
Montezuma		499			
Montrose		2,679	10		127
Pitkin	88,606			88,606	
Rio Blanco	3,691	14,845	3	6,500	5,958
Routt	403,064	40,944	6,138	117,357	73,298
San Miguel		44	12		
Weld	332,002	290,725	4,178	200	19,484
TOTALS	2,012,416	867,525	42,424	369,121	178,865

SIZES, GRADES, BY COUNTY

MINE RUN	LUMP	EGG	OTHER GRADES	NUT	PEA	SLACK
104	388				49	59
	2,776	9,723	208	2,275	3,428	15,542
1,061	18,180		1,044	6,337	312	16,446
4,002	2,461	13,639		12,051	76	43,229
82,573	21,031	48	1,689	13,698	4,657	57,254
1,590	2,836		259	576		24,688
113,974	36,582	24	1,635	14,700	65	101,307
1,840	12,779	9,056	1,200	8,349	22	24,824
2,267						
28,526	5,664	91		297	11	7,492
11,375	9,272	1,020	612	2,372	404	850,243
4,557	6,223		2,159	3,468	354	22,189
	17,911			12,256		55,516
	224					275
1,472	881			117		219
88,606						
	4,339	1,609	311	2,398		9,882
8,750	65,538	43,440	51,458	42,599	62,874	175,487
56						
415	47,877	94,846	8,068	7,275	14,780	453,644
351,168	254,962	173,496	68,643	128,768	87,032	1,858,296

MECHANICAL LOADING

COUNTY	Shaker Type	MECHANICAL LOADERS						TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor)		
		Chain Conveyors	Mainline	Mobile	Belt	Chain	Track	Caterpillar	Power Shovel	Small Portable Conveyors
Archuleta										
Boulder	15									13, 071
Delta	2						1			24, 441
El Paso	1							2		70, 939
Fremont	20	3	10		1			5	1	113, 729
Garfield	2					1				
Gunnison	14		1	3				8		224, 652
Huerfano	14		4		1					16, 957
Jackson										
La Plata	2									14, 120
Las Animas	46		7	7	4			7	1	396, 994
Mesa	13	1							1	22, 498
Moffat	3							1		85, 683
Montezuma										
Montrose										
Pitkin									2	
Rio Blanco	2	2	1					5		17, 946
Routt	40	3	4		5					116, 086
San Miguel										
Weld	12			1			15		7	446, 385
TOTALS	186	9	27	11	12	1	43	1	11	1, 563, 501

COLORADO - 1954

TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES	MINING MACHINERY						TOTAL TONNAGE	
	Undercutting	Electric Shearing	Combination Undercutting and Electric Shearing	Electric Drills	Compressed Air Cutting Machines	Compressed Air Drills		
				1			600	
20,881	17		20				33,952	
4,943	7	2	10				43,380	
	4		6				75,458	
50,278	39		39				180,950	
1,000	2		14				29,949	
27,989	31	2	30	1			268,287	
17,124	36		17				58,070	
	1		1				2,267	
	10	1	8				42,081	
48,373	51	6	42	80			875,298	
12,124	16	1	11				38,950	
	3		8				85,683	
							499	
	1		2				2,689	
86,752							88,606	
593	4		5				18,539	
48,190	58		54				450,146	
	1						56	
	52	1	1	67		5	626,905	
318,247	333	3	11	335	-	81	5	2,922,365
Continuous Miners, Weld County only - 180,520								

FATAL ACCIDENTS

Date	Name	Mine	County	Cause	Occupation	Age	Exp.
6-3	J. R. Ramirez	Hi-Grade	Fre.	Roof fall	Superintendent	45	27
9-28	Jose Romero	Morley	Las A.	Roof fall	Miner	22	2½
11-16	A. Spensieri	Crown	Bould.	Roof fall	Machine operator	59	39

FIVE YEAR COMPARISON

NON-FATALS

1950	1951	1952	1953	1954	Causes of Injury	1950 1951 1952 1953 1954										
						40	47	28	27	17	Falls of roof	6	2	3	2	3
27	19	16	12	5	Fall of face or rib						1	1				
14	11	11	7	7	Falling objects											
11	10	9	4	3	Falls of persons											
22	21	20	9	19	Handling materials											
6	11	11	10	4	Hand tools											
6	2	1	3	2	Striking vs objects											
29	34	29	21	11	Haulage						1	1	1	1	1	
-	-	-	-	2	Explosions of gas											
-	1	4	2	3	Explosives											
2	4	1	2	4	Electricity						1					
20	29	14	17	7	Machinery										1	
11	6	8	6	1	Jack pipes											
1	1	2	1	-	R. R. cars											
1	1	3	-	1	Others						1					
190	197	157	121	86	Totals						10	4	5	3	3	

ACCIDENT STATISTICS

	Fatalities		Non-fatal	
	1954	1953	1954	1953
Fatalities	3	3		
Non-fatal/Compensable			86	121
Per 1,000 employed	1.04	0.89	29.88	36.01
Men employed per injury	959	1,119.7	33.47	27.76
Tonnage per injury	974,122	1,199,622	33,980.9	29,742.7
Per million tons	1.02	0.88	29.42	33.62
Dependents: Widows	3	3		
Children	11	5		

COAL PRODUCTION FROM 1873 THROUGH 1954

<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>
1873	69, 977	1900	5, 495, 734	1927	9, 781, 580
1874	87, 372	1901	6, 021, 405	1928	9, 921, 585
1875	98, 838	1902	7, 522, 923	1929	9, 934, 064
1876	117, 666	1903	7, 775, 302	1930	8, 238, 094
1877	160, 000	1904	6, 776, 551	1931	6, 604, 063
1878	200, 630	1905	8, 989, 631	1932	6, 616, 525
1879	322, 732	1906	10, 308, 421	1933	5, 284, 872
1880	375, 000	1907	10, 965, 640	1934	5, 251, 003
1881	706, 744	1908	9, 773, 007	1935	5, 953, 601
1882	1, 161, 479	1909	10, 722, 490	1936	6, 868, 801
1883	1, 220, 593	1910	12, 104, 887	1937	7, 222, 092
1884	1, 130, 024	1911	10, 197, 595	1938	5, 730, 291
1885	1, 398, 796	1912	11, 016, 948	1939	6, 002, 125
1886	1, 436, 211	1913	9, 268, 939	1940	6, 673, 359
1887	1, 791, 735	1914	8, 201, 423	1941	7, 008, 037
1888	2, 185, 477	1915	8, 715, 397	1942	8, 131, 764
1889	2, 400, 629	1916	10, 522, 185	1943	8, 372, 683
1890	3, 075, 781	1917	12, 515, 305	1944	8, 202, 401
1891	3, 512, 632	1918	12, 658, 055	1945	7, 656, 612
1892	3, 771, 234	1919	10, 406, 543	1946	5, 928, 823
1893	3, 947, 056	1920	12, 514, 693	1947	6, 381, 016
1894	3, 021, 028	1921	9, 141, 947	1948	5, 682, 512
1895	3, 339, 495	1922	10, 003, 610	1949	4, 578, 170
1896	3, 371, 633	1923	10, 336, 735	1950	4, 274, 887
1897	3, 565, 660	1924	10, 501, 088	1951	4, 111, 945
1898	4, 174, 037	1925	10, 440, 387	1952	3, 643, 523
1899	4, 826, 939	1926	10, 616, 760	1953	3, 598, 867
				1954	2, 922, 365



Your attention is called to the splendid work by the State Multigraph Department in the printing of this Annual Report.





